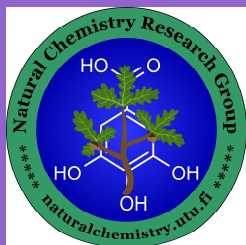


**Maarit Karonen**

**Natural Chemistry Research Group**

**Department of Chemistry**



- Biodiversity by means of bioanalytical chemistry

<https://naturalchemistry.utu.fi/>



## Plant-based raw materials

- Biobased
- Sustainable
- Inexpensive
- Easily available

## Biomass

- Polyphenols
- Tannins

## New bioactive compounds

Significant effects against MRSA



Effect and safety? Mode of action?  
Synergistic effects?

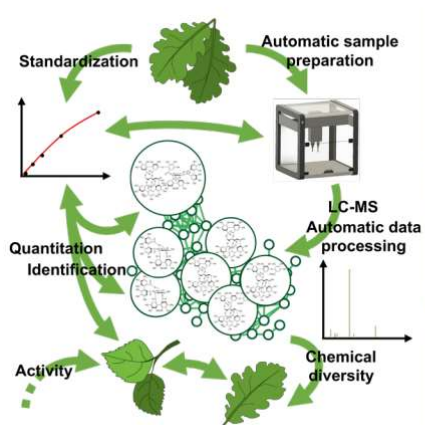
# Towards Sustainable Bioeconomy

Targeting, for example, at:

- Antibiotic resistance
- Climate change
- Biodiversity loss
- Chemicalization of the environment

## Chemical diversity of plants

- Mass spectrometric methods
- Metabolomics
- Molecular networking





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